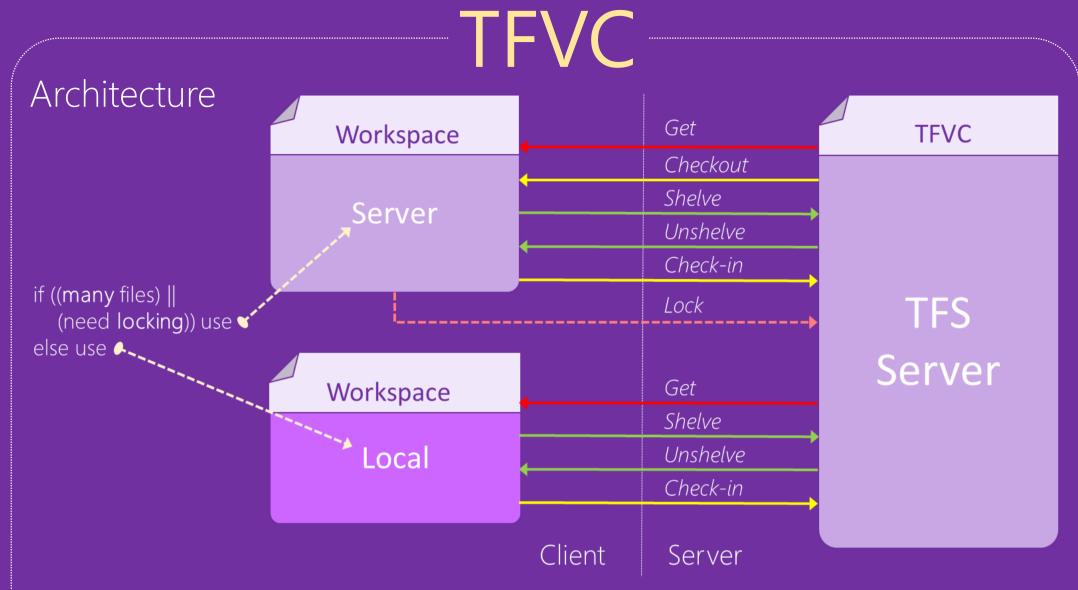
Version Control Cheat Sheet for TFVC and Git

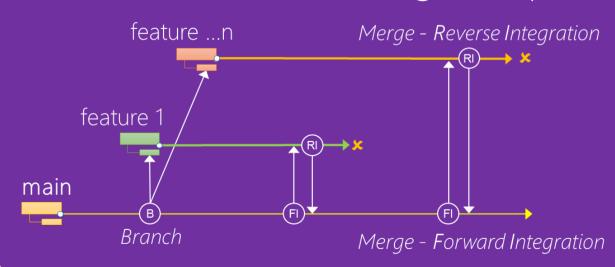




Concepts

- **Branch** is an isolated copy of item metadata and version control history.
- **Changeset** is a logical container for changes of a single check-in.
- **Check-in** commits pending changes in workspace to server as a changeset.
- **Label** mutable grouping of specific version of a set of source files.
- **Shelveset** is a set of pending changes are temporarily saved on the server.
- **Workspace** is a local copy of your team's codebase. Create multiple workspaces and switch among them to work on different branches or copies of the codebase.

Feature Isolation Branching Example



Commands

Team Foundation Version Control (TVFC) command line tool with a variety

- add adds new files and folders from a local file system location
- checkin commits pending changes in current workspace to TFVC **checkout** makes local file writable and changes status to "edit"
- delete removes files and folders from TFVC and disk
- history displays the revision history for files and folders

branching

branch creates a copy of items, preserving a relationship to the

merge applies changes from one branch into another

- shelve stores a set of pending changes in TFVC without a commit shelvesets used to view details of a shelveset or view shelvesets
- unshelve restores shelved changes from TFVC to current workspace

uncommon

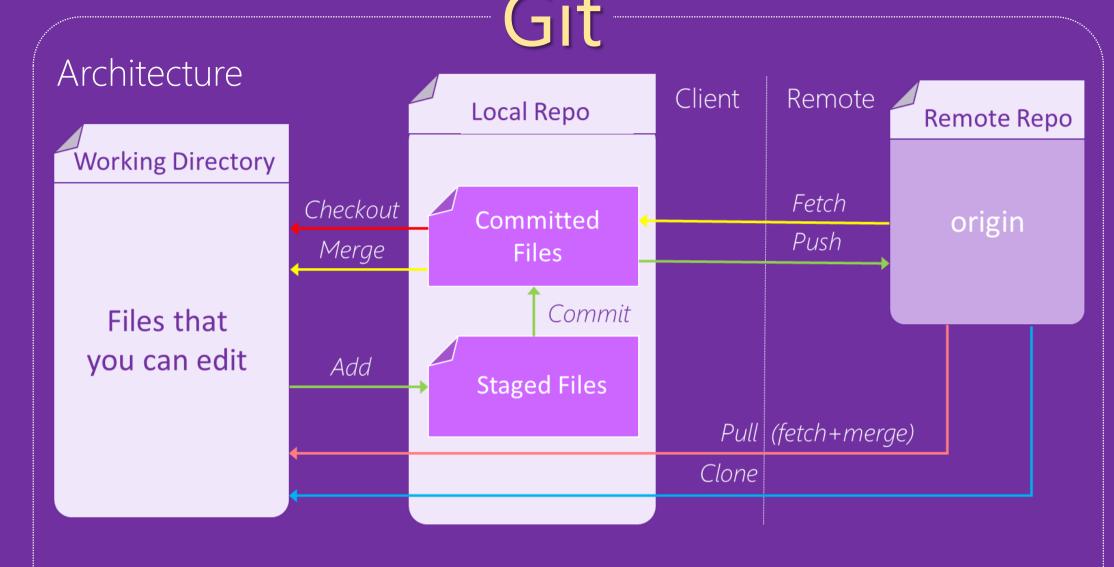
- changeset displays information about a changeset destroy permanently deletes, version-controlled files from TFV. Admin
- lock locks or unlocks to prevent against checkin/checkout of items
- rename changes the name or the path of items
- rollback reverts the changes of one or more changesets undelete restores items that were previously deleted
- workspace creates, deletes, displays, or modifies properties and mappings associated with a workspace.

help

Type **TF** /? on the command line for a complete list of commands

TFSDeleteProject

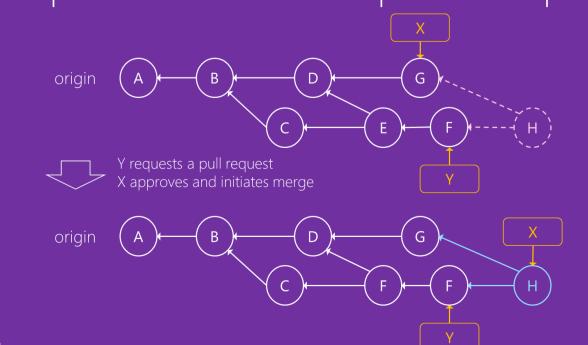
Command line tool which deletes a team project from a TFS team project collection. It is a non-recoverable operation!



Concepts

- Branch is a named pointer to a commit history in the repository. Used to isolate changes from each other.
- **Commit** (noun) is equivalent (mostly) to Changeset, but can also be an action.
- **HEAD** is a pointer to the branch your commits will be associated with.
- **Stash** is a set of pending changes are temporarily saved in the repository.
- Tag is a named pointer to a commit in the repository. Useful for marking a point-in-time in your repository.

Topic Branch & Pull Request Example



Links

- - Git source control provider VS2008-2012

Commands

git command

git command line tool with a variety of commands.

- status shows uncommitted changes in the working directory

branching

- branch [name] creates branch called *name* based on HEAD
- branch [-d name] deletes branch called name
- checkout [id] switch to the id branch
- diff shows changes to tracked files
- merge two branches

uncommon

- blame show who changed what and when
- bisect find regressions
- grep search working directory
- log show history of changes
- show [id:file] show a specific file from a specific id

▶ help

Type **git -help** on the command line for a complete list of commands and arguments.

